

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on: March 11, 2003, 11:23:48 ; Search time 4599 Seconds
(without alignments)
19090.179 Million cell updates/sec

Title: US-10-006-911-3
Perfect score: 5421
Sequence: 1 cggggatcgggttttttttgtggtttcaaaaaaaaaaaaaa 5421

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues
Total number of hits satisfying chosen parameters: 102860

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1000 summaries

Database : EST.*
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_htc:*
9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_inv:*
20: em_gss_pln:*
21: em_gss_vrt:*
22: em_gss_fun:*
23: em_gss_mam:*
24: em_gss_mus:*
25: em_gss_other:*
26: em_gss_pro:*
27: em_gss_rsd:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	36.2	0.7	42	17	AZ796654
2	35.4	0.7	50	14	BQ577141
3	35.2	0.6	40	17	AZ511352
4	35.2	0.6	49	9	AA773360
5	35	0.6	50	17	AZ665271
6	34.8	0.6	49	9	AA842027
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					BQ577141 PFESToab1
					AZ511352 1M0356A24
					AA773360 aE65t08.s
					AZ665271 1M0546C08
					AA842027 MEAFCFCD0

7	34.8	0.6	49	17	AZ846608
8	34.6	0.6	50	17	AZ374770
9	34.2	0.6	40	17	AZ328467
10	34.2	0.6	47	17	AZ385990
11	34.2	0.6	47	17	AZ853064
12	34.2	0.6	47	17	AZ862836
13	34.2	0.6	47	17	AZ864870
14	34.2	0.6	48	17	AZ979665
15	34.2	0.6	49	9	A1813244
16	34.2	0.6	49	10	AV833587
17	34.2	0.6	50	17	AZ776590
18	33.6	0.6	42	10	AV957667
19	33.6	0.6	47	10	AV947640
20	33.6	0.6	49	10	AV671476
21	33.4	0.6	43	17	AZ345546
22	33.4	0.6	44	10	AV672475
23	33.4	0.6	44	10	AV833550
24	33.4	0.6	44	17	AZ974579
25	33.4	0.6	47	10	AV949200
26	33.2	0.6	38	17	AZ871535
27	33.2	0.6	50	17	AZ776790
28	33.2	0.6	50	17	AZ827028
29	33	0.6	42	14	T54684
30	33	0.6	42	17	AZ826548
31	33	0.6	42	17	AZ941720
32	33	0.6	46	10	AV963987
33	32.8	0.6	38	17	AZ479185
34	32.6	0.6	39	10	AV673727
35	32.6	0.6	39	17	AZ846059
36	32.6	0.6	39	17	AZ987023
37	32.6	0.6	41	10	AV672637
38	32.6	0.6	49	10	AV965544
39	32.4	0.6	47	10	AV955412
40	32.2	0.6	37	17	AZ346663
41	32.2	0.6	38	17	AZ946744
42	32.2	0.6	45	17	AZ833436
43	32.2	0.6	49	13	RJ000259
44	32	0.6	45	10	AV967392
45	31.8	0.6	36	17	AZ664037
46	31.8	0.6	37	17	AZ645311
47	31.8	0.6	38	17	AZ333216
48	31.8	0.6	42	17	AZ590801
49	31.8	0.6	49	10	AV674036
50	31.8	0.6	50	2	HSM002946
51	31.6	0.6	39	17	AZ844480
52	31.4	0.6	50	12	BE976895
53	30.8	0.6	34	17	AZ366687
54	30.8	0.6	36	17	AZ387862
55	30.8	0.6	45	13	BJ000572
56	30.4	0.6	50	9	AI755739
57	30.2	0.6	47	10	AW250836
58	30.2	0.6	49	9	AA116935
59	30.2	0.6	49	9	AI597576
60	30	0.6	47	2	HSM002960
61	30	0.6	47	17	AZ486785
62	30	0.6	49	2	HSM001347
63	29.8	0.5	33	17	AZ606035
64	29.8	0.5	33	17	AZ869302
65	29.8	0.5	33	17	AZ876021
66	29.8	0.5	33	17	AZ964180
67	29.8	0.5	34	10	AV962438
68	29.8	0.5	43	17	AZ960584
69	29.8	0.5	44	13	BJ001599
70	29.8	0.5	49	9	AI270095
71	29.8	0.5	50	9	AA966391
72	29.6	0.5	41	17	AZ424284
73	29.6	0.5	45	10	AW249952
74	29.6	0.5	49	9	AI431439
75	29.6	0.5	50	9	AA564185
76	29.4	0.5	34	9	AL668112
77	29.4	0.5	46	17	AZ953297
78	29.4	0.5	49	9	AL048743
79	29.4	0.5	49	10	AV836215

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AZ328467	1M0052E18
AZ385990	1M0144D16
AZ853064	2M0156K04
AZ862836	2M0170N09
AZ864870	2M0174M10
AZ979665	2M0256J19
A1813244	3G2 Pine
AV833587	AV833587
AZ776590	2M0010A23
AV957667	AV957667
AV947640	AV947640
AV671476	AV671476
AZ345546	1M0080C14
AV672475	AV672475
AV833550	AV833550
AZ974579	2M0249A18
AV949200	AV949200
AZ871535	2M0194N24
AZ776790	2M0010C14
AZ827028	2M0103M09
T54684	Yb41a05.r1
AZ826548	2M0102I02
AZ941720	2M0201O03
AV963987	AV963987
AZ479185	1M0299J11
AV673727	AV673727
AZ846059	2M0146P07
AZ987023	2M0269N24
AV672637	AV672637
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AZ346663	1M0082C01
AZ946744	2M0208J12
AZ833436	2M0115G01
RJ000259	B7000259
AV967392	AV967392
AZ664037	1M0544E05
AZ645311	1M0510K10
AZ333216	1M0062N12
AZ590801	1M0400N04
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AI038470	Homo sapi
AZ844480	2M0143B07
BE976895	bs57D03.Y
AZ966687	2M0237L17
AZ387862	1M0147M22
BJ000572	BJ000572
AI755739	EtESTea20
AW250836	2821228.3
AA116935	tn22G01.r
AI597576	tr92B02.x
AI038484	Homo sapi
AZ486785	1M0315C23
AI037023	Homo sapi
AZ606035	1M0427P12
AZ869302	2M0181C20
AZ976021	2M0190C23
AZ964180	2M0233F17
AV962438	AV962438
AZ960584	2M0228M07
BJ001599	BJ001599
AI270095	qt63C08.x
AA966391	w4f01a1.r
AZ424284	1M0203M14
AW249952	2821663.3
AI431439	th36h10.x
AA564185	nj04d11.s
AL668112	AL668112
AZ953297	2M0218A04
AL048743	DFFZP566K
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C 81	29.4	0.5	50	9	AJ500588	AJ500588 AJ500588
C 82	29.4	0.5	50	9	AA590944	AA590944 VM25F02.Y
C 83	29.4	0.5	50	12	BQ409128	BQ409128 GB86E03.Y
C 84	29.4	0.5	50	13	RI491716	RI491716 df14b04.W
C 85	29.2	0.5	34	17	AZ966348	AZ966348 CM0236J13
C 86	29.2	0.5	43	17	AZ356519	AZ356519 IM0097P08
C 87	29.2	0.5	49	9	AA254893	AA254893 mzt78d07.Y
C 88	29.2	0.5	50	2	HSM009683	AL044833 Homo sapi
C 89	28.8	0.5	42	17	AZ345558	AZ345558 IM008091F
C 90	28.8	0.5	37	10	AV673465	AV673465 AV673465
C 91	28.8	0.5	42	12	BQ292448	BQ292448 602386574
C 92	28.8	0.5	42	12	RF343329	RF343329 602015993
C 93	28.8	0.5	43	12	BQ028362	BQ028362 602295420
C 94	28.8	0.5	43	13	BI908698	BI908698 603066333
C 95	28.8	0.5	44	9	AL640163	AL640163 AL640163
C 96	28.8	0.5	44	12	BQ117508	BQ117508 602347636
C 97	28.8	0.5	45	12	BP525658	BP525658 602069777
C 98	28.8	0.5	45	12	BF337242	BF337242 602035050
C 99	28.8	0.5	45	13	BI330882	BI330882 602081270
C 100	28.8	0.5	48	9	AL628936	AL628936 AL628936
C 101	28.8	0.5	49	9	AI350847	AI350847 qtl1e09.X
C 102	28.8	0.5	49	13	BI090256	BI090256 602855121
C 103	28.8	0.5	49	13	BI858831	BI858831 603388748
C 104	28.8	0.5	50	9	AL644181	AL644181 AL644181
C 105	28.8	0.5	50	12	BQ256941	BQ256941 602370419
C 106	28.8	0.5	50	13	BI493940	BI493940 df106e06.
C 107	28.8	0.5	50	13	BI496942	BI496942 df129G10.
C 108	28.8	0.5	50	14	BQ256372	BQ256372 NISC_K001
C 109	28.8	0.5	50	14	BQ265586	BQ265586 NISC_FF07
C 110	28.8	0.5	50	14	BQ393428	BQ393428 NISC_P303
C 111	28.8	0.5	50	9	AA120437	AA120437 mr47a11.Y
C 112	28.8	0.5	50	9	AA617223	AA617223 VJ79e05.Y
C 113	28.8	0.5	38	10	AW333985	AW333985 S28H9.AGS
C 114	28.8	0.5	45	10	AV950686	AV950686 AV950686
C 115	28.8	0.5	48	12	BG667239	BG667239 DRAHD04
C 116	28.8	0.5	49	9	AI316598	AI316598 uk62a04.Y
C 117	28.8	0.5	50	2	HSM002079	AL037748 Homo sapi
C 118	28.8	0.5	50	10	AW333255	AW333255 S19D3.AGS
C 119	28.8	0.5	33	17	AZ759124	AZ759124 IM0551N24
C 120	28.8	0.5	33	17	AZ839021	AZ839021 CM0134F21
C 121	28.8	0.5	43	9	AL587884	AL587884 AL587884
C 122	28.8	0.5	47	2	HSM002907	AL038431 Homo sapi
C 123	28.8	0.5	50	9	AA139046	AA139046 mr48e12.Y
C 124	28.8	0.5	50	9	AL587874	AL587874 AL587874
C 125	28.8	0.5	37	9	AL587823	AL587823 AL587823
C 126	28.8	0.5	40	9	AL638703	AL638703 AL638703
C 127	28.8	0.5	47	17	AZ456727	AZ456727 IM0259D17
C 128	28.8	0.5	49	9	AA608271	AA608271 vn61f09.Y
C 129	28.8	0.5	50	14	BQ397954	BQ397954 NISC_m003
C 130	27.8	0.5	31	17	AZ641732	AZ641732 IM0504L23
C 131	27.8	0.5	31	17	AZ869598	AZ869598 CM0181H14
C 132	27.8	0.5	39	12	PE891613	PE891613 601434505
C 133	27.8	0.5	39	12	BF032623	BF032623 601453114
C 134	27.8	0.5	39	17	AZ639088	AZ639088 IM0499A20
C 135	27.8	0.5	40	17	AZ831983	AZ831983 CM0112P02
C 136	27.8	0.5	41	17	AZ775066	AZ775066 CM0007I01
C 137	27.8	0.5	41	17	AZ827008	AZ827008 CM0101I07
C 138	27.8	0.5	42	10	AW334133	AW334133 S30H7.AGS
C 139	27.8	0.5	42	17	TA379A06P	AL497629 T. brucei
C 140	27.8	0.5	43	17	AZ355703	AZ355703 IM0095D02
C 141	27.8	0.5	43	17	AZ374531	AZ374531 IM0127B19
C 142	27.8	0.5	45	9	AL645122	AL645122 AL645122
C 143	27.8	0.5	45	12	BF582680	BF582680 602094085
C 144	27.8	0.5	45	17	AZ624922	AZ624922 IM0463E19
C 145	27.8	0.5	46	17	AZ498045	AZ498045 IM03135097
C 146	27.8	0.5	47	9	AL642997	AL642997 AL642997
C 147	27.8	0.5	47	9	AL660275	AL660275 AL660275
C 148	27.8	0.5	47	17	AZ649857	AZ649857 IM0519Q08
C 149	27.8	0.5	48	9	AL653895	AL653895 AL653895
C 150	27.8	0.5	49	9	AL660945	AL660945 AL660945
C 151	27.8	0.5	49	9	AU052653	AU052653 AU052653
C 152	27.8	0.5	49	9	AU054068	AU054068 AU054068
C 153	27.8	0.5	49	9	AA589132	AA589132 vi53g09.Y
C 154	27.8	0.5	49	12	BQ290798	BQ290798 60238q129
C 155	27.8	0.5	50	9	AA853120	AA853120 NHTBCae03
C 156	27.8	0.5	50	9	AL802194	AL802194 AL802194
C 157	27.8	0.5	50	10	AW215755	AW215755 up09f10.Y
C 158	27.8	0.5	50	14	BQ258029	BQ258029 NISC_KP08
C 159	27.8	0.5	50	14	BQ265202	BQ265202 NISC_FF04
C 160	27.8	0.5	50	14	BQ524325	BQ524325 NISC_n004
C 161	27.8	0.5	50	17	AZ627160	AZ627160 IM0457L09
C 162	27.8	0.5	46	2	HSM001086	AL036769 Homo sapi
C 163	27.6	0.5	50	17	AZ759568	AZ759568 IM0552M18
C 164	27.6	0.5	50	17	AZ785637	AZ785637 CM0029A20
C 165	27.6	0.5	29	17	AZ804183	AZ804183 CM0064N22
C 166	27.4	0.5	38	12	RF526154	RF526154 602071057
C 167	27.4	0.5	39	12	BQ288749	BQ288749 602384505
C 168	27.4	0.5	40	12	BQ166502	BQ166502 602339795
C 169	27.4	0.5	42	2	HSM001033	AL036183 Homo sapi
C 170	27.4	0.5	45	9	AL587540	AL587540 AL587540
C 171	27.4	0.5	46	2	HSM003158	AL038682 Homo sapi
C 172	27.4	0.5	49	2	HSM0003587	AL039111 Homo sapi
C 173	27.4	0.5	50	9	AL641164	AL641164 AL641164
C 174	27.2	0.5	37	9	AI125022	AI125022 ao10C10.S
C 175	27.2	0.5	48	17	AZ507309	AZ507309 IM03348P21
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C 178	27.2	0.5	47	17	AZ786064	AZ786064 CM0030G22
C 179	27.2	0.5	48	10	AV950753	AV950753 AV950753
C 180	27.2	0.5	49	9	AA116935	AA116935 mn22901.Y
C 181	27.2	0.5	49	9	AA608271	AA608271 vn61f09.Y
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C 183	26.8	0.5	38	17	AZ589726	AZ589726 IM0338I24
C 184	26.8	0.5	38	17	AZ785034	AZ785034 CM0028I06
C 185	26.8	0.5	44	17	AZ433032	AZ433032 IM0219M12
C 186	26.8	0.5	45	17	AZ389954	AZ389954 CM0273C02
C 187	26.8	0.5	47	17	AZ476231	AZ476231 IM0294P14
C 188	26.8	0.5	48	9	AL587964	AL587964 AL587964
C 189	26.8	0.5	49	9	AL649742	AL649742 AL649742
C 190	26.8	0.5	49	9	AA526728	AA526728 ni91d10.S
C 191	26.8	0.5	50	10	AV967273	AV967273 AV967273
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C 193	26.6	0.5	35	13	BM047352	BM047352 603628475
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C 197	26.6	0.5	43	9	AA975126	AA975126 on06e08.S
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C 199	26.6	0.5	49	9	AA589175	AA589175 vi63h07.Y
C 200	26.6	0.5	49	9	AA590547	AA590547 vi64b04.Y
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C 207	26.6	0.5	36	17	AZ957867	AZ957867 CM0224G19
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C 210	26.6	0.5	37	17	AZ321759	AZ321759 IM0042P02
C 211	26.6	0.5	37	17	AZ463801	AZ463801 IM0272E23
C 212	26.6	0.5	37	17	AZ831214	AZ831214 CM0110P16
C 213	26.6	0.5	38	12	BF525501	BF525501 602069592
C 214	26.6	0.5	38	17	AZ773771	AZ773771 CM0001B04
C 215	26.6	0.5	39	13	BI694035	BI694035 603342221
C 216	26.6	0.5	39	17	AZ330749	AZ330749 IM00056J07
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C 218	26.6	0.5	45	17	AZ467350	AZ467350 IM0279L07
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C 220	26.6	0.5	47	9	AL793866	AL793866 AL793866
C 221	26.6	0.5	48	9	AL587964	AL587964 AL587964
C 222	26.6	0.5	48	9	AL643160	AL643160 AL643160
C 223	26.6	0.5	49	9	AI308161	AI308161 tb25d07.X
C 224	26.6	0.5	49	17	AZ587341	AZ587341 IM0394020
C 225	26.6	0.5	50	9	AA120437	AA120437 mn47a11.Y

C 226	26.4	0.5	50	10	AW333255	AW333255 S19D3 AGS	25.2	0.5	49	12	BF692288	BF692288 602249170
C 227	26.4	0.5	50	14	N67606	N67606 Yz4302.s1	25.2	0.5	49	12	BF017790	BF017790 ux75h05.y
C 228	26.2	0.5	32	17	AZ329877	AZ329877 1M0054L07	25.2	0.5	49	13	BI223339	BI223339 6C2942804
C 229	26.2	0.5	32	17	AZ515185	AZ515185 1M0054L07	25.2	0.5	50	9	AJ500405	AJ500405 AJ500405
C 230	26.2	0.5	40	10	AV833442	AV833442 AV833442	25.2	0.5	50	9	AL802194	AL802194 AL802194
C 231	26.2	0.5	40	17	AZ789792	AZ789792 2M0037J19	25.2	0.5	50	14	BQ391535	BQ391535 NISC_mq19
C 232	26.2	0.5	42	2	HSM001513	AL037188 Homo sapi	25.2	0.5	50	14	BQ525572	BQ525572 NISC_nol1
C 233	26.2	0.5	44	10	AW332205	AW332205 S5E10 AGS	25.2	0.5	50	14	BQ527366	BQ527366 NISC_ro21
C 234	26.2	0.5	44	13	BJ050937	BJ050937 BJ050937	25.2	0.5	36	17	AZ945733	AZ945733 2M0207B13
C 235	26.2	0.5	45	2	HSM002199	AL037866 Homo sapi	25	0.5	38	2	HSM002249	AL037916 Homo sapi
C 236	26.2	0.5	49	9	AA607953	AI350847 qt1le08.x	25	0.5	43	9	AL636467	AL636467 AL636467
C 237	26.2	0.5	50	9	AA607953	AA607953 vm39h06.y	25	0.5	44	9	AL587842	AL587842 AL587842
C 238	26	0.5	35	12	BE894837	BE894837 601434018	25	0.5	46	9	AL681169	AL681169 AL681169
C 239	26	0.5	39	17	TA116FC9P	AL462533 T. brucei	25	0.5	47	9	AL627881	AL627881 AL627881
C 240	26	0.5	40	9	AL449576	AL449576 AL449576	25	0.5	47	13	BJ047667	BJ047667 BJ047667
C 241	26	0.5	40	9	AL804001	AL804001 AL804001	25	0.5	49	9	AI270095	AI270095 qt63c08.x
C 242	26	0.5	42	17	AZ345455	AZ345455 1M0080J12	25	0.5	49	12	EG409272	EG409272 9b82f08.y
C 243	26	0.5	42	17	AZ611889	AZ611889 1M0438E01	25	0.5	50	10	AV967273	AV967273 AV967273
C 244	26	0.5	43	9	AL797532	AL797532 AL797532	25	0.5	50	13	BI865491	BI865491 ft23g12.x
C 245	26	0.5	44	12	BE880865	BE880865 601490408	24.8	0.5	28	17	AZ462549	AZ462549 1M0271N04
C 246	26	0.5	46	2	HSM002006	AL037675 Homo sapi	24.8	0.5	28	17	AZ860136	AZ860136 2M0166D02
C 247	26	0.5	49	9	AA852759	AA852759 NHTBcae15	24.8	0.5	28	17	AZ943199	AZ943199 2M0203H17
C 248	26	0.5	50	2	HSM009683	AL044833 Homo sapi	24.8	0.5	36	12	BE894682	BE894682 601435925
C 249	26	0.5	50	9	AU107225	AU107225 AU107225	24.8	0.5	37	9	AL048768	AL048768 DKF2p566M
C 250	26	0.5	50	9	AA564185	AA564185 nj04d11.s	24.8	0.5	38	9	AL588026	AL588026 AL588026
C 251	26	0.5	50	12	BF029726	BF029726 601556615	24.8	0.5	38	13	EG920906	EG920906 602222814
C 252	25.8	0.5	38	17	TA264E08F	AL483993 T. brucei	24.8	0.5	38	13	BJ000158	BJ000158 BJ000158
C 253	25.8	0.5	46	9	AI432256	AI432256 th48e11.x	24.8	0.5	39	13	BJ000542	BJ000542 BJ000542
C 254	25.8	0.5	48	17	AZ345504	AZ345504 1M0080G06	24.8	0.5	40	9	AL638703	AL638703 AL638703
C 255	25.8	0.5	49	9	AA526728	AA526728 nj91d10.y	24.8	0.5	43	13	BJ034348	BJ034348 BJ034348
C 256	25.8	0.5	49	14	BQ125506	BQ125506 rc69b07.y	24.8	0.5	43	17	AZ638328	AZ638328 1M0498110
C 257	25.8	0.5	49	17	AZ790087	AZ790087 2M0038H24	24.8	0.5	44	12	BE880865	BE880865 601490408
C 258	25.8	0.5	50	9	AA523789	AA523789 nj68f12.s	24.8	0.5	44	12	BF138639	BF138639 601781816
C 259	25.8	0.5	50	17	AZ936918	AZ936918 2M0193H21	24.8	0.5	44	13	BJ050937	BJ050937 BJ050937
C 260	25.6	0.5	32	17	AZ451251	AZ451251 1M0250I05	24.8	0.5	45	12	BF582680	BF582680 602094C85
C 261	25.6	0.5	32	17	AZ804185	AZ804185 2M0064N24	24.8	0.5	45	17	AZ504116	AZ504116 1M0334K08
C 262	25.6	0.5	32	17	AZ811393	AZ811393 2M0077E06	24.8	0.5	46	17	AZ498045	AZ498045 1M0335G07
C 263	25.6	0.5	33	9	AU013658	AU013658 AU013658	24.8	0.5	47	9	AL642997	AL642997 AL642997
C 264	25.6	0.5	40	9	AL449576	AL449576 AL449576	24.8	0.5	49	9	AL660945	AL660945 AL660945
C 265	25.6	0.5	45	14	T66373	T66373 YC78e05.r1	24.8	0.5	49	13	BJ055149	BJ055149 BJ055149
C 266	25.6	0.5	46	9	AL681169	AL681169 AL681169	24.8	0.5	49	17	AZ587341	AZ587341 1M03394020
C 267	25.6	0.5	49	9	AA757463	AA757463 7941a06.s	24.8	0.5	50	9	AA590944	AA590944 vm25f02.r
C 268	25.6	0.5	49	9	AA472860	AA472860 vd59c05.y	24.8	0.5	50	10	BE344524	BE344524 AF 273-f
C 269	25.6	0.5	50	9	AL644181	AL644181 AL644181	24.8	0.5	50	10	BM315416	BM315416 fw25h06.y
C 270	25.6	0.5	50	9	AA607953	AA607953 vm39h06.y	24.8	0.5	50	14	BQ265202	BQ265202 NISC_ff04
C 271	25.4	0.5	35	17	AZ623128	AZ623128 1M0460D02	24.8	0.5	50	14	BQ610242	BQ610242 sap38f12
C 272	25.4	0.5	35	17	AZ803371	AZ803371 2M0063C15	24.8	0.5	50	14	BQ265202	BQ265202 NISC_ff04
C 273	25.4	0.5	36	9	AL587891	AL587891 AL587891	24.6	0.5	32	17	AZ579652	AZ579652 1M0367C12
C 274	25.4	0.5	36	12	BE894682	BE894682 601435925	24.6	0.5	33	17	AZ759642	AZ759642 1M0552E03
C 275	25.4	0.5	38	12	BG778513	BG778513 602666730	24.6	0.5	34	12	EG612023	EG612023 602613924
C 276	25.4	0.5	41	2	HSM001284	AL036963 Homo sapi	24.6	0.5	36	2	HSM003163	AL036887 Homo sapi
C 277	25.4	0.5	41	10	AV957284	AV957284 AV957284	24.6	0.5	38	17	AZ589726	AZ589726 1M0398124
C 278	25.4	0.5	48	13	BI870940	BI870940 603394490	24.6	0.5	39	13	BJ057535	BJ057535 BJ057535
C 279	25.4	0.5	48	17	DR15D19T	AL748117 Dario rer	24.6	0.5	39	17	CNS004NT	AL054298 Drosophi1
C 280	25.4	0.5	50	13	BI870932	BI870932 603394482	24.6	0.5	40	2	HSM001818	AL037487 Homo sapi
C 281	25.4	0.5	50	14	BQ265775	BQ265775 NISC_ff09	24.6	0.5	40	17	AZ326980	AZ326980 1M0050A12
C 282	25.4	0.5	34	9	AL047464	AL047464 DKF2p586M	24.6	0.5	43	12	BE969098	BE969098 601650077
C 283	25.2	0.5	34	10	AV674152	AV674152 AV674152	24.6	0.5	44	10	AV967414	AV967414 AV967414
C 284	25.2	0.5	34	10	AW334249	AW334249 S32D4 AGS	24.6	0.5	44	17	AZ433032	AZ433032 1M0218M12
C 285	25.2	0.5	34	17	AZ345610	AZ345610 1M0080C24	24.6	0.5	44	17	AZ445546	AZ445546 1M0241M18
C 286	25.2	0.5	35	12	BF338797	BF338797 602036229	24.6	0.5	45	2	HSM002199	AL037866 Homo sapi
C 287	25.2	0.5	36	13	BI761940	BI761940 603048772	24.6	0.5	45	10	AW249352	AW249352 2821663.3
C 288	25.2	0.5	39	17	CNS004NT	AL054298 Drosophi1	24.6	0.5	46	9	AU266466	AU266466 AU266466
C 289	25.2	0.5	40	9	AA852205	AA852205 NHTBcae11	24.6	0.5	46	17	AZ793043	AZ793043 2M0045M14
C 290	25.2	0.5	41	10	AV742106	AV742106 AV742106	24.6	0.5	47	17	AZ767279	AZ767279 1M0566C24
C 291	25.2	0.5	44	2	HSM009691	AL044841 Homo sapi	24.6	0.5	49	9	AI431439	AI431439 th36h10.x
C 292	25.2	0.5	44	17	AZ826237	AZ826237 2M0101A19	24.6	0.5	49	13	BJ055149	BJ055149 BJ055149
C 293	25.2	0.5	47	9	AL660493	AL660493 AL660493	24.6	0.5	49	17	AZ453639	AZ453639 1M0255J08
C 294	25.2	0.5	48	9	AL653895	AL653895 AL653895	24.6	0.5	50	9	AA966391	AA966391 w4f01a1.r
C 295	25.2	0.5	48	10	AV950753	AV950753 AV950753	24.6	0.5	50	9	AL641164	AL641164 AL641164
C 296	25.2	0.5	49	2	HSM009939	AL045089 Homo sapi	24.6	0.5	50	9	AU107918	AU107918 AU107918
C 297	25.2	0.5	49	9	AI597576	AI597576 tr92b02.x	24.6	0.5	50	10	AW698824	AW698824 r418 non-
C 298	25.2	0.5	49	9	AA545635	AA545635 vj65h35.y	24.6	0.5	50	12	BF012756	BF012756 ux73b04.y
							24.6	0.5	50	14	BQ392292	BQ392292 NISC_mq23

C 372	24.6	0.5	50	17	AZ627160	1M047109	AZ627160	1M047109	C 445	24	0.4	32	10	AW327277	dq61d07.x
C 373	24.4	0.5	26	2	AL038686	Homo sapi	AL038686	Homo sapi	446	24	0.4	32	17	AZ459536	1M0264M16
C 374	24.4	0.5	30	17	AZ962183	2M0230124	AZ962183	2M0230124	447	24	0.4	32	17	AZ470832	1M0285F14
C 375	24.4	0.5	34	17	AZ465350	1M0375012	AZ465350	1M0375012	448	24	0.4	32	17	AZ611890	1M0438E02
C 376	24.4	0.5	34	17	AZ501040	1M0339P09	AZ501040	1M0339P09	449	24	0.4	32	17	AZ778018	2M0012020
C 377	24.4	0.5	34	17	AZ909643	2M0073C14	AZ909643	2M0073C14	450	24	0.4	33	9	AL587609	AL587609
C 378	24.4	0.5	39	13	BJ081937	BJ081937	BJ081937	BJ081937	451	24	0.4	33	17	AZ486795	AZ486795
C 379	24.4	0.5	40	17	AZ463268	1M0272B01	AZ463268	1M0272B01	452	24	0.4	33	17	AZ627839	1M0474B02
C 380	24.4	0.5	42	17	AZ625468	1M0464N22	AZ625468	1M0464N22	453	24	0.4	34	9	AL587876	AL587876
C 381	24.4	0.5	43	12	BQ502943	602590E09	BQ502943	602590E09	454	24	0.4	34	12	BQ612023	602613024
C 382	24.4	0.5	43	17	AZ576593	AST-TD1.2	AZ576593	AST-TD1.2	455	24	0.4	35	17	AZ956924	AZ956924
C 383	24.4	0.5	43	17	AZ620145	1M0452D15	AZ620145	1M0452D15	456	24	0.4	38	13	BJ062969	BJ062969
C 384	24.4	0.5	43	17	AZ836058	2M0130G12	AZ836058	2M0130G12	457	24	0.4	40	9	AL804001	AL804001
C 385	24.4	0.5	43	17	BH888835	3526.1.30	BH888835	3526.1.30	458	24	0.4	40	10	AW334967	AW334967
C 386	24.4	0.5	44	13	BJ084494	BJ084494	BJ084494	BJ084494	459	24	0.4	41	17	AZ606865	AZ606865
C 387	24.4	0.5	45	12	BQ666979	DRNAANB12	BQ666979	DRNAANB12	460	24	0.4	42	17	AZ473630	AZ473630
C 388	24.4	0.5	46	12	BQ610636	602611813	BQ610636	602611813	461	24	0.4	43	9	AL797532	AL797532
C 389	24.4	0.5	48	2	HSM002293	AL037959	HSM002293	AL037959	462	24	0.4	45	9	AL587540	AL587540
C 390	24.4	0.5	48	17	AQ026463	EP(2)0641	AQ026463	EP(2)0641	463	24	0.4	45	14	T66373	T66373
C 391	24.4	0.5	49	2	HSM002939	AL045089	HSM002939	AL045089	464	24	0.4	45	17	AZ467950	AZ467950
C 392	24.4	0.5	49	9	AA852759	NHTBca15	AA852759	NHTBca15	465	24	0.4	46	2	HSM003129	HSM003129
C 393	24.4	0.5	49	13	BI865513	f21d06.x	BI865513	f21d06.x	466	24	0.4	46	2	HSM003158	HSM003158
C 394	24.4	0.5	50	13	BI496942	df129g10.	BI496942	df129g10.	467	24	0.4	46	13	BI094742	EST CD34N
C 395	24.4	0.5	50	14	BQ392292	NISC.mq23	BQ392292	NISC.mq23	468	24	0.4	47	2	HSM002907	HSM002907
C 396	24.2	0.4	29	17	AZ455946	AZ455946	AZ455946	AZ455946	469	24	0.4	47	2	HSM002960	HSM002960
C 397	24.2	0.4	29	17	AZ819924	2M0091A19	AZ819924	2M0091A19	470	24	0.4	47	9	AL660493	AL660493
C 398	24.2	0.4	30	12	BQ865511	602783643	BQ865511	602783643	471	24	0.4	47	10	AV971035	AV971035
C 399	24.2	0.4	31	12	BQ292912	602389549	BQ292912	602389549	472	24	0.4	47	13	BJ047667	BJ047667
C 400	24.2	0.4	37	10	AV832911	AV832911	AV832911	AV832911	473	24	0.4	48	9	AL643160	AL643160
C 401	24.2	0.4	37	17	AZ824309	2M0098017	AZ824309	2M0098017	474	24	0.4	49	2	HSM001347	HSM001347
C 402	24.2	0.4	38	12	BF526154	BF526154	BF526154	BF526154	475	24	0.4	49	9	AL1308161	AL1308161
C 403	24.2	0.4	39	2	HSM002488	AL038149	HSM002488	AL038149	476	24	0.4	49	9	AL1316598	AL1316598
C 404	24.2	0.4	39	9	AL636986	AL636986	AL636986	AL636986	477	24	0.4	49	9	AL439346	AL439346
C 405	24.2	0.4	39	9	AL660986	AL660986	AL660986	AL660986	478	24	0.4	49	9	AL653092	AL653092
C 406	24.2	0.4	39	12	BQ287495	602384505	BQ287495	602384505	479	24	0.4	49	9	AU268128	AU268128
C 407	24.2	0.4	40	2	HSM002456	AL038117	HSM002456	AL038117	480	24	0.4	50	2	HSM002079	HSM002079
C 408	24.2	0.4	40	12	BQ166502	602339795	BQ166502	602339795	481	24	0.4	50	2	HSM002946	HSM002946
C 409	24.2	0.4	40	12	BF213125	601844961	BF213125	601844961	482	24	0.4	50	9	AL282566	AL282566
C 410	24.2	0.4	42	2	HSM011033	AL046183	HSM011033	AL046183	483	24	0.4	50	10	AV957350	AV957350
C 411	24.2	0.4	42	10	AW698626	g578.glan	AW698626	g578.glan	484	24	0.4	50	10	BE306432	BE306432
C 412	24.2	0.4	42	12	BQ292448	602386574	BQ292448	602386574	485	24	0.4	50	14	N67606	N67606
C 413	24.2	0.4	42	12	BF343329	602015993	BF343329	602015993	486	23.8	0.4	27	14	P59382	P59382
C 414	24.2	0.4	43	12	BQ028362	602295420	BQ028362	602295420	487	23.8	0.4	27	17	AZ632991	AZ632991
C 415	24.2	0.4	43	13	BI908698	603066333	BI908698	603066333	488	23.8	0.4	27	17	AZ941721	AZ941721
C 416	24.2	0.4	44	9	AL587842	AL587842	AL587842	AL587842	489	23.8	0.4	27	17	AZ970621	AZ970621
C 417	24.2	0.4	44	9	AL640163	AL640163	AL640163	AL640163	490	23.8	0.4	30	17	AZ610578	AZ610578
C 418	24.2	0.4	44	12	BG117508	602347636	BG117508	602347636	491	23.8	0.4	34	13	BJ037907	BJ037907
C 419	24.2	0.4	45	9	AL645122	AL645122	AL645122	AL645122	492	23.8	0.4	35	9	AL641482	AL641482
C 420	24.2	0.4	45	12	BF525658	602069777	BF525658	602069777	493	23.8	0.4	35	17	AZ945973	AZ945973
C 421	24.2	0.4	45	12	BF337242	602035050	BF337242	602035050	494	23.8	0.4	38	17	AZ964138	AZ964138
C 422	24.2	0.4	46	9	AL788203	AL788203	AL788203	AL788203	495	23.8	0.4	39	10	AV964796	AV964796
C 423	24.2	0.4	46	9	AL788203	AL788203	AL788203	AL788203	496	23.8	0.4	39	17	AZ339890	AZ339890
C 424	24.2	0.4	46	13	BI256739	602974296	BI256739	602974296	497	23.8	0.4	39	17	TA281H08P	TA281H08P
C 425	24.2	0.4	47	14	T25588	EST0624.un	T25588	EST0624.un	498	23.8	0.4	40	2	HSM003149	HSM003149
C 426	24.2	0.4	47	17	AZ486785	1M0315C23	AZ486785	1M0315C23	499	23.8	0.4	40	13	BJ060995	BJ060995
C 427	24.2	0.4	48	9	AL628936	AL628936	AL628936	AL628936	500	23.8	0.4	41	9	AL638585	AL638585
C 428	24.2	0.4	48	17	AZ477776	1M0297L24	AZ477776	1M0297L24	501	23.8	0.4	41	12	BQ426793	BQ426793
C 429	24.2	0.4	49	9	AA254893	AA254893	AA254893	AA254893	502	23.8	0.4	42	2	HSM001513	HSM001513
C 430	24.2	0.4	49	9	AA590547	vi64b04.r	AA590547	vi64b04.r	503	23.8	0.4	42	9	AL786113	AL786113
C 431	24.2	0.4	49	12	BF343486	602017592	BF343486	602017592	504	23.8	0.4	43	2	HSM003157	HSM003157
C 432	24.2	0.4	49	13	BI090256	602855121	BI090256	602855121	505	23.8	0.4	43	2	HSM010805	HSM010805
C 433	24.2	0.4	49	13	BI223339	602942804	BI223339	602942804	506	23.8	0.4	43	9	AL636541	AL636541
C 434	24.2	0.4	49	13	BI858831	603388748	BI858831	603388748	507	23.8	0.4	45	12	BF691166	BF691166
C 435	24.2	0.4	49	17	AZ579577	1M0367M09	AZ579577	1M0367M09	508	23.8	0.4	45	12	BQ666979	BQ666979
C 436	24.2	0.4	50	9	AA617223	AA617223	AA617223	AA617223	509	23.8	0.4	46	2	HSM001086	HSM001086
C 437	24.2	0.4	50	10	AW215755	up09f10.y	AW215755	up09f10.y	510	23.8	0.4	47	12	BF571075	BF571075
C 438	24.2	0.4	50	12	BQ256941	602370419	BQ256941	602370419	511	23.8	0.4	47	17	AZ481024	AZ481024
C 439	24.2	0.4	50	13	BI493940	df106e06	BI493940	df106e06	512	23.8	0.4	48	14	BQ901243	BQ901243
C 440	24.2	0.4	50	13	BQ062166	BJ062166	BQ062166	BJ062166	513	23.8	0.4	48	14	BQ901244	BQ901244
C 441	24.2	0.4	50	14	BQ256372	NISC.k001	BQ256372	NISC.k001	514	23.8	0.4	50	9	AI282566	AI282566
C 442	24.2	0.4	50	14	BQ265586	NISC.f007	BQ265586	NISC.f007	515	23.8	0.4	50	9	AA523789	AA523789
C 443	24.2	0.4	50	14	BQ393428	NISC.ng03	BQ393428	NISC.ng03	516	23.6	0.4	50	2	HSM003148	HSM003148
C 444	24	0.4	51	17	AZ486763	1M0315A11	AZ486763	1M0315A11	517	23.6	0.4	51	17	AZ772951	AZ772951

C 518	23.6	0.4	32	2	HSM003156	AL038680 Homo sapi	C 591	23.2	0.4	28	17	AZ833425	AZ833425 2M0115P04
C 519	23.6	0.4	34	10	AV962925	AV962925 AV962925	C 592	23.2	0.4	28	17	AZ866569	AZ866569 2M0177B08
C 520	23.6	0.4	35	17	AZ785723	AZ785723 2M0029H19	C 593	23.2	0.4	28	17	TA291A01Q	AL486613 T. brucei
C 521	23.6	0.4	37	9	AA972505	AA972505 op15c01.s	C 594	23.2	0.4	28	17	TA379D11P	AL497637 T. brucei
C 522	23.6	0.4	38	17	AZ638883	AZ638883 1M0499G05	C 595	23.2	0.4	29	17	AZ389566	AZ389566 1M0150D21
C 523	23.6	0.4	40	2	HSM001841	AL037510 Homo sapi	C 596	23.2	0.4	29	17	AZ414283	AZ414283 1M0188G12
C 524	23.6	0.4	40	9	AL048404	AL048404 DKFZP586G	C 597	23.2	0.4	29	17	AZ451930	AZ451930 1M0251E05
C 525	23.6	0.4	40	17	AZ391073	AZ391073 1M0152I24	C 598	23.2	0.4	29	17	AZ468402	AZ468402 1M0281G24
C 526	23.6	0.4	41	2	HSM002020	AL037689 Homo sapi	C 599	23.2	0.4	29	17	AZ486793	AZ486793 1M0315N21
C 527	23.6	0.4	41	10	AV742106	AV742106 AV742106	C 600	23.2	0.4	29	17	AZ661709	AZ661709 1M0540K20
C 528	23.6	0.4	42	10	AV847138	AV847138 AV847138	C 601	23.2	0.4	29	17	AZ784208	AZ784208 2M0226I13
C 529	23.6	0.4	43	9	AL587884	AL587884 AL587884	C 602	23.2	0.4	29	17	AZ806470	AZ806470 2M0068I02
C 530	23.6	0.4	43	13	BJ034348	BJ034348 BJ034348	C 603	23.2	0.4	29	17	AZ806470	AZ806470 2M0068I02
C 531	23.6	0.4	43	17	AZ638328	AZ638328 1M0498I10	C 604	23.2	0.4	29	17	AZ812242	AZ812242 2M0078J15
C 532	23.6	0.4	44	10	AV967414	AV967414 AV967414	C 605	23.2	0.4	29	17	AZ868731	AZ868731 2M0180L02
C 533	23.6	0.4	44	17	AL760205	AL760205 Arabidops	C 606	23.2	0.4	29	17	TA334G09Q	AL491938 T. brucei
C 534	23.6	0.4	45	9	AL795414	AL795414 AL795414	C 607	23.2	0.4	30	2	HSM003126	AL038650 Homo sapi
C 535	23.6	0.4	46	13	BG917265	BG917265 602816542	C 608	23.2	0.4	30	12	BG666435	BG666435 DRACPC02
C 536	23.6	0.4	47	9	AL793866	AL793866 AL793866	C 609	23.2	0.4	30	17	AZ357603	AZ357603 1M0099H17
C 537	23.6	0.4	49	9	AA545635	AA545635 vj65R05.r	C 610	23.2	0.4	30	17	AZ443322	AZ443322 1M0237L20
C 538	23.6	0.4	50	9	AA853120	AA853120 NHTBCae03	C 611	23.2	0.4	30	17	AZ455741	AZ455741 1M0258D16
C 539	23.6	0.4	50	9	AJ500588	AJ500588 AJ500588	C 612	23.2	0.4	30	17	AZ481739	AZ481739 1M0306N12
C 540	23.6	0.4	50	9	AL587874	AL587874 AL587874	C 613	23.2	0.4	30	17	AZ582114	AZ582114 1M0374J17
C 541	23.6	0.4	50	9	AA574989	AA574989 vm34a03.r	C 614	23.2	0.4	31	2	HSM003598	AL039122 Homo sapi
C 542	23.6	0.4	50	9	AA574989	AA574989 vm34a03.r	C 615	23.2	0.4	31	10	AV960178	AV960178 AV960178
C 543	23.6	0.4	50	13	BM569359	BM569359 kj60B05.Y	C 616	23.2	0.4	31	17	AZ333315	AZ333315 1M0062A21
C 544	23.4	0.4	55	17	AZ510124	AZ510124 1M0354K22	C 617	23.2	0.4	31	17	AZ375973	AZ375973 1M0129D08
C 545	23.4	0.4	55	17	AZ664804	AZ664804 1M0545H24	C 618	23.2	0.4	31	17	AZ510092	AZ510092 1M0354P14
C 546	23.4	0.4	56	17	AZ641486	AZ641486 1M0504J06	C 619	23.2	0.4	31	17	AZ597046	AZ597046 1M0410K08
C 547	23.4	0.4	56	17	AZ666145	AZ666145 1M0548C02	C 620	23.2	0.4	31	17	AZ623538	AZ623538 1M0461G21
C 548	23.4	0.4	56	17	AZ771239	AZ771239 1M0573P15	C 621	23.2	0.4	31	17	AZ778697	AZ778697 2M0014C02
C 549	23.4	0.4	56	17	AZ939813	AZ939813 2M0198P23	C 622	23.2	0.4	31	17	AZ821215	AZ821215 2M0093F21
C 550	23.4	0.4	57	17	AZ655531	AZ655531 1M0530L03	C 623	23.2	0.4	31	17	AZ836618	AZ836618 2M0102C19
C 551	23.4	0.4	57	17	AZ862643	AZ862643 2M0170J19	C 624	23.2	0.4	32	17	AZ314322	AZ314322 1M0031N05
C 552	23.4	0.4	58	9	AL048439	AL048439 DKFZP586I	C 625	23.2	0.4	32	17	AZ3397471	AZ3397471 1M0162P23
C 553	23.4	0.4	58	13	BJ078010	BJ078010 BJ078010	C 626	23.2	0.4	32	17	AZ400441	AZ400441 1M0166C14
C 554	23.4	0.4	58	10	AV743346	AV743346 AV743346	C 627	23.2	0.4	32	17	DR1P7S	AL7753323 Danio rer
C 555	23.4	0.4	58	14	R38731	R38731 YD03G06.s1	C 628	23.2	0.4	33	12	BG531309	BG531309 602559543
C 556	23.4	0.4	58	17	AZ307192	AZ307192 1M0008B07	C 629	23.2	0.4	34	12	BG531309	BG531309 602559543
C 557	23.4	0.4	58	17	TA68D10P	AL457502 T. brucei	C 630	23.2	0.4	35	9	AL642939	AL642939 AL642939
C 558	23.4	0.4	58	2	HSM001127	AL036810 Homo sapi	C 631	23.2	0.4	36	9	AL661444	AL661444 AL661444
C 559	23.4	0.4	59	9	AL642939	AL642939 AL642939	C 632	23.2	0.4	36	10	AW059764	AW059764 LE4C03.YG
C 560	23.4	0.4	59	9	AL787430	AL787430 AL787430	C 633	23.2	0.4	36	12	BE876160	BE876160 601485659
C 561	23.4	0.4	59	10	AV832415	AV832415 AV832415	C 634	23.2	0.4	36	17	AZ470916	AZ470916 1M0285E23
C 562	23.4	0.4	59	9	AL636986	AL636986 AL636986	C 635	23.2	0.4	36	17	AZ628484	AZ628484 1M0480E08
C 563	23.4	0.4	59	9	AL648316	AL648316 AL648316	C 636	23.2	0.4	36	17	AZ793484	AZ793484 2M0046G15
C 564	23.4	0.4	59	10	AV970980	AV970980 AV970980	C 637	23.2	0.4	36	17	AZ949866	AZ949866 2M0213H19
C 565	23.4	0.4	59	12	BF381753	BF381753 601815982	C 638	23.2	0.4	36	17	AZ957867	AZ957867 2M0224G19
C 566	23.4	0.4	59	17	AZ626439	AZ626439 1M0466M11	C 639	23.2	0.4	37	9	AL048768	AL048768 DFZP566M
C 567	23.4	0.4	41	12	BG426793	BG426793 602492967	C 640	23.2	0.4	37	9	AL587823	AL587823 AL587823
C 568	23.4	0.4	41	14	N21988	N21988 YW30F12.s1	C 641	23.2	0.4	37	9	AL640286	AL640286 AL640286
C 569	23.4	0.4	42	17	AZ427987	AZ427987 1M0210H16	C 642	23.2	0.4	37	9	AL660628	AL660628 AL660628
C 570	23.4	0.4	43	2	HSM010805	AL045955 Homo sapi	C 643	23.2	0.4	37	9	AL660628	AL660628 AL660628
C 571	23.4	0.4	43	9	AL636467	AL636467 AL636467	C 644	23.2	0.4	37	12	BG033620	BG033620 602301748
C 572	23.4	0.4	43	14	T25548	T25548 EST00581 Un	C 645	23.2	0.4	37	12	BG430173	BG430173 602495159
C 573	23.4	0.4	44	13	BJ078833	BJ078833 BJ078833	C 646	23.2	0.4	37	17	AZ321759	AZ321759 1M0742F22
C 574	23.4	0.4	45	9	AL007315	AU007315 AU007315	C 647	23.2	0.4	37	17	AZ463801	AZ463801 1M0272E23
C 575	23.4	0.4	45	9	AL258443	AU258443 AU258443	C 648	23.2	0.4	37	17	AZ831214	AZ831214 2M0110P16
C 576	23.4	0.4	45	17	AZ819267	AZ819267 2M0089K13	C 649	23.2	0.4	38	2	HSM002269	AL037935 Homo sapi
C 577	23.4	0.4	45	17	AZ985975	AZ985975 2M0268F01	C 650	23.2	0.4	38	2	HSM002269	AL037935 Homo sapi
C 578	23.4	0.4	46	10	BE385190	BE385190 601274688	C 651	23.2	0.4	38	2	HSM003128	AL038652 Homo sapi
C 579	23.4	0.4	47	9	AU268330	AU268330 AU268330	C 652	23.2	0.4	38	9	AL793626	AL793626 AL793626
C 580	23.4	0.4	50	9	AA139046	AA139046 mn48C12.r	C 653	23.2	0.4	38	10	AW333985	AW333985 S28H9 AGS
C 581	23.4	0.4	50	9	AJ499559	AJ499559 AJ499559	C 654	23.2	0.4	38	12	BF525501	BF525501 602069592
C 582	23.4	0.4	50	13	BM155745	BM155745 fw26G12.Y	C 655	23.2	0.4	39	9	AL2785034	AZ785034 2M02028106
C 583	23.4	0.4	50	14	BO457328	BO457328 ke37G03.Y	C 656	23.2	0.4	39	9	AL660986	AL660986 AL660986
C 584	23.2	0.4	28	17	AZ399637	AZ399637 1M0165N04	C 657	23.2	0.4	39	10	AW248768	AW248768 2820919.3
C 585	23.2	0.4	28	17	AZ401766	AZ401766 1M0168038	C 658	23.2	0.4	39	10	AW248768	AW248768 2820919.3
C 586	23.2	0.4	28	17	AZ471744	AZ471744 1M0286F08	C 659	23.2	0.4	39	12	BE891613	BE891613 601424505
C 587	23.2	0.4	28	17	AZ493138	AZ493138 1M0327F02	C 660	23.2	0.4	39	12	BF032623	BF032623 601453114
C 588	23.2	0.4	28	17	AZ653365	AZ653365 1M0527F02	C 661	23.2	0.4	39	12	BI694035	BI694035 603342221
C 589	23.2	0.4	28	17	AZ785035	AZ785035 2M0028J01	C 662	23.2	0.4	39	17	AZ333989C	AZ333989C 1M0071L05
C 590	23.2	0.4	28	17	AZ824519	AZ824519 2M00099199	C 663	23.2	0.4	39	17	AZ633998	AZ633998 1M0409A20

[illegible]

810	22.6	0.4	34	10	AW698832	AW698832 r440 non-	883	22.4	0.4	27	17	AZ580921	AZ580921 1M0369E24
811	22.6	0.4	34	12	BG531309	BG531309 602559543	884	22.4	0.4	27	17	AZ616094	AZ616094 1M0445E17
C 812	22.6	0.4	34	17	TA318H06P	TA318H06P T. brucei	885	22.4	0.4	27	17	AZ623186	AZ623186 1M0460D12
C 813	22.6	0.4	37	9	AA938091	AA938091 G197F07.S	886	22.4	0.4	27	17	AZ627847	AZ627847 1M0474C11
814	22.6	0.4	37	13	BJ039838	BJ039838 BJ039838	C 887	22.4	0.4	27	17	AZ776487	AZ776487 2M0010G08
C 815	22.6	0.4	37	17	AZ804190	AZ804190 2M0064P19	C 888	22.4	0.4	27	17	AZ809295	AZ809295 2M0073B15
C 816	22.6	0.4	38	17	AL766788	AL766788 Arabidops	C 889	22.4	0.4	27	17	TA355B06F	TA355B06F T. brucei
817	22.6	0.4	39	9	AL648316	AL648316 AL648316	890	22.4	0.4	28	9	AU257468	AU257468 AU257468
C 818	22.6	0.4	40	9	AL048404	AL048404 DKF2P586G	C 891	22.4	0.4	28	17	AZ358038	AZ358038 1M0100F05
C 819	22.6	0.4	40	12	BF382039	BF382039 601816366	892	22.4	0.4	28	17	AZ481286	AZ481286 1M0303L24
C 820	22.6	0.4	40	17	AZ326980	AZ326980 1M0050A12	C 893	22.4	0.4	29	17	AZ819924	AZ819924 2M0091A19
821	22.6	0.4	40	17	AZ615880	AZ615880 1M0445L22	894	22.4	0.4	31	17	TA244G08P	TA244G08P T. brucei
822	22.6	0.4	42	13	BI138862	BI138862 EST-CD34N	C 895	22.4	0.4	32	12	BG501238	BG501238 602547802
823	22.6	0.4	43	13	BJ038480	BJ038480 BJ038480	896	22.4	0.4	32	12	BF032851	BF032851 601455689
C 824	22.6	0.4	45	10	AV854173	AV854173 AV854173	C 897	22.4	0.4	32	14	P59306	P59306 Yh16C10.S1
825	22.6	0.4	45	13	BJ060342	BJ060342 BJ060342	898	22.4	0.4	32	17	AZ451251	AZ451251 1M0250I05
C 826	22.6	0.4	45	17	AZ620771	AZ620771 1M0453E11	899	22.4	0.4	32	17	AZ627842	AZ627842 1M0474G03
C 827	22.6	0.4	46	13	BJ015738	BJ015738 BJ015738	900	22.4	0.4	33	12	BJ058891	BJ058891 BJO58881
C 828	22.6	0.4	47	12	BF107886	BF107886 601823895	C 901	22.4	0.4	34	10	AV574152	AV574152 AV674152
829	22.6	0.4	48	13	BJ058175	BJ058175 BJ058175	902	22.4	0.4	34	10	AV833140	AV833140 AV833140
C 830	22.6	0.4	48	17	AZ392758	AZ392758 1M0155H03	903	22.4	0.4	34	13	BJ041405	BJ041405 BJ041405
C 831	22.6	0.4	49	13	BJ040992	BJ040992 BJ040992	904	22.4	0.4	34	13	BJ067181	BJ067181 BJ067181
C 832	22.6	0.4	50	9	AJ499559	AJ499559 AJ499559	905	22.4	0.4	35	14	T50295	T50295 Yb16G12.S1
C 833	22.6	0.4	50	9	AJ500405	AJ500405 AJ500405	C 906	22.4	0.4	35	14	T55209	T55209 Yb42G07.S1
C 834	22.4	0.4	24	12	BG670391	BG670391 DRNEAP06	907	22.4	0.4	36	14	N33245	N33245 YY07F07.S1
C 835	22.4	0.4	24	17	AZ328848	AZ328848 1M0052M17	C 908	22.4	0.4	37	9	AL639511	AL639511 AL639511
C 836	22.4	0.4	24	17	AZ363562	AZ363562 1M0109G10	909	22.4	0.4	37	10	AW245247	AW245247 2820C28.3
C 837	22.4	0.4	24	17	AZ386491	AZ386491 1M0145D02	910	22.4	0.4	37	12	BJ054011	BJ054011 BJ054011
838	22.4	0.4	24	17	AZ390642	AZ390642 1M0152H07	C 911	22.4	0.4	37	17	TA115E07P	TA115E07P T. brucei
839	22.4	0.4	24	17	AZ459280	AZ459280 1M0264A05	912	22.4	0.4	38	17	TA264B08P	TA264B08P T. brucei
840	22.4	0.4	24	17	AZ644621	AZ644621 1M0508F12	C 913	22.4	0.4	39	17	AZ655647	AZ655647 1M0530B17
C 841	22.4	0.4	24	17	AZ834990	AZ834990 2M0129A05	914	22.4	0.4	40	12	BJ060995	BJ060995 BJ060995
C 842	22.4	0.4	24	17	AZ970038	AZ970038 2M0243J02	915	22.4	0.4	40	12	BJ082856	BJ082856 BJ082856
C 843	22.4	0.4	24	17	AZ984490	AZ984490 2M0266H05	C 916	22.4	0.4	41	13	BJ058917	BJ058917 BJ058917
844	22.4	0.4	24	17	AZ993423	AZ993423 2M0278Q12	C 917	22.4	0.4	41	17	AZ356235	AZ356235 1M0097D16
845	22.4	0.4	24	17	TA169D12F	TA169D12F T. brucei	C 918	22.4	0.4	42	13	BJ000051	BJ000051 BJ000051
C 846	22.4	0.4	24	17	TA27B08Q	TA27B08Q T. brucei	C 919	22.4	0.4	43	13	BJ038480	BJ038480 BJ038480
C 847	22.4	0.4	24	17	TA354C06P	TA354C06P T. brucei	C 920	22.4	0.4	43	17	AZ827544	AZ827544 2M0104I03
C 848	22.4	0.4	24	17	TA371F11P	TA371F11P T. brucei	C 921	22.4	0.4	43	17	AZ876808	AZ876808 2M0191I24
C 849	22.4	0.4	24	17	TA95B08P	TA95B08P T. brucei	C 922	22.4	0.4	44	12	BJ080612	BJ080612 BJ080612
850	22.4	0.4	25	9	AL587648	AL587648 AL587648	923	22.4	0.4	46	17	AZ806877	AZ806877 2M0069A14
851	22.4	0.4	25	14	N33150	N33150 YY06G01.S1	924	22.4	0.4	47	12	BF107886	BF107886 601823895
C 852	22.4	0.4	25	17	AZ330737	AZ330737 1M0056F09	C 925	22.4	0.4	47	10	AV742042	AV742042 AV742042
C 853	22.4	0.4	25	17	AZ344725	AZ344725 1M0078I24	C 926	22.4	0.4	49	10	AV834112	AV834112 AV834112
854	22.4	0.4	25	17	AZ350777	AZ350777 1M0088A04	927	22.4	0.4	49	10	AV947763	AV947763 AV947763
C 855	22.4	0.4	25	17	AZ381039	AZ381039 1M0137N18	C 928	22.4	0.4	49	12	BG179823	BG179823 602329028
C 856	22.4	0.4	25	17	AZ389458	AZ389458 1M0150B06	C 929	22.4	0.4	50	9	AI337715	AI337715 Qw86h10.X
857	22.4	0.4	25	17	AZ609234	AZ609234 1M0433H19	C 930	22.4	0.4	50	9	AU106847	AU106847 AU106847
858	22.4	0.4	25	17	AZ623157	AZ623157 1M0460L02	C 931	22.4	0.4	50	9	AU267843	AU267843 AU267843
859	22.4	0.4	25	17	AZ788646	AZ788646 2M0035L19	C 932	22.4	0.4	50	12	BE894311	BE894311 601437683
C 860	22.4	0.4	25	17	AZ949287	AZ949287 2M0212O08	933	22.4	0.4	50	14	BQ387597	BQ387597 NISC_m24
861	22.4	0.4	25	17	AZ980407	AZ980407 2M0257M19	C 934	22.4	0.4	50	14	BQ391535	BQ391535 NISC_mq19
862	22.4	0.4	25	17	TA324E10P	TA324E10P T. brucei	C 935	22.2	0.4	31	9	AU265883	AU265883 AU265883
863	22.4	0.4	26	9	AL587774	AL587774 AL587774	C 936	22.2	0.4	31	17	TA244G08P	TA244G08P T. brucei
864	22.4	0.4	26	10	AW327613	AW327613 dq01b09.Y	937	22.2	0.4	32	14	R16114	R16114 Ya51f03.S2
C 865	22.4	0.4	26	17	AZ359871	AZ359871 1M0102H23	938	22.2	0.4	35	10	AV959278	AV959278 AV959278
C 866	22.4	0.4	26	17	AZ376664	AZ376664 1M0130E08	C 939	22.2	0.4	35	17	AZ860079	AZ860079 2M0165J19
C 867	22.4	0.4	26	17	AZ389765	AZ389765 1M0150D13	940	22.2	0.4	36	9	AL661444	AL661444 AL661444
C 868	22.4	0.4	26	17	AZ414673	AZ414673 1M0189M07	C 941	22.2	0.4	36	17	AQ025534	AQ025534 EP(X)1606
C 869	22.4	0.4	26	17	AZ593300	AZ593300 1M0404E16	942	22.2	0.4	37	9	AU266347	AU266347 AU266347
870	22.4	0.4	26	17	AZ612722	AZ612722 1M0439E17	C 943	22.2	0.4	37	13	BJ054011	BJ054011 BJ054011
871	22.4	0.4	26	17	AZ624441	AZ624441 1M0463C07	944	22.2	0.4	38	12	BG778513	BG778513 602666730
872	22.4	0.4	26	17	AZ627846	AZ627846 1M0474H08	C 945	22.2	0.4	38	17	AZ589720	AZ589720 1M0398H23
C 873	22.4	0.4	26	17	AZ652515	AZ652515 1M0525H15	C 946	22.2	0.4	39	9	AU270778	AU270778 AU270778
874	22.4	0.4	26	17	AZ800453	AZ800453 2M0058023	947	22.2	0.4	39	10	AV966637	AV966637 AV966637
875	22.4	0.4	26	17	AZ963974	AZ963974 2M0233N01	C 948	22.2	0.4	39	14	N52146	N52146 Yz28e06.S1
C 876	22.4	0.4	26	17	TA324D07P	TA324D07P T. brucei	C 949	22.2	0.4	40	9	AA852205	AA852205 NHTBCae11
C 877	22.4	0.4	27	10	AW327923	AW327923 dr02G28.X	C 950	22.2	0.4	40	10	AV959884	AV959884 AV959884
878	22.4	0.4	27	17	AZ344642	AZ344642 1M0078H15	951	22.2	0.4	41	9	AL638585	AL638585 AL638585
C 879	22.4	0.4	27	17	AZ401672	AZ401672 1M0168K04	952	22.2	0.4	41	17	AZ784447	AZ784447 2M0027M24
C 880	22.4	0.4	27	17	AZ458228	AZ458228 1M0262C12	C 953	22.2	0.4	43	12	BG502943	BG502943 602550609
881	22.4	0.4	27	17	AZ486791	AZ486791 1M0315K21	C 954	22.2	0.4	44	10	AW332205	AW332205 S5E10.AGS
882	22.4	0.4	27	17	AZ511894	AZ511894 1M0355E11	C 955	22.2	0.4	45	17	AZ634992	AZ634992 1M0491A08

with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 0 a 23 c 0 g 24 t
ORIGIN

Query Match 0.6%; Score 34.2; DB 17; Length 47;
Best Local Similarity 83.0%; Pred. No. 2.9e+05;
Matches 39; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1054 TCCCTCCTGTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1100
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 TCT 47

RESULT 11
AZ853064
LOCUS 2M0156K04F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION clone UUGC2M0156K04 F, DNA sequence.

ACCESSION AZ853064
VERSION AZ853064 1 GI:13040804
KEYWORDS GSS.
SOURCE house mouse.

ORGANISM

Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

REFERENCE

AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

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84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0156 row: K column: 04

Seq primer: CGTTGTAAACACGCGCCAGT

Class: plasmid ends

High quality sequence stop: 47.

Location/Qualifiers

FEATURES

source

1. .47
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0156K04"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 0 a 23 c 0 g 24 t
ORIGIN

Query Match 0.6%; Score 34.2; DB 17; Length 47;
Best Local Similarity 83.0%; Pred. No. 2.9e+05;
Matches 39; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1054 TCCCTCCTGTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1100
||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 TCT 47

RESULT 12
AZ862836

LOCUS

DEFINITION 2M0170N09R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0170N09 R, DNA sequence.

ACCESSION AZ862836
VERSION AZ862836.1 GI:13060537
KEYWORDS GSS.
SOURCE house mouse.

ORGANISM

Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

REFERENCE

AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0170 row: N column: 09

Seq primer: CACACAGGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 47.

Location/Qualifiers

FEATURES

source

1. .47
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0170N09"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated


```

BASE COUNT      0 a      20 c      0 g      21 t      1 others
ORIGIN

Query Match      0.6%; Score 33 6; PR 10; Length 42;
Best Local Similarity 87.8%; Pred. No. 3.9e+05;
Matches 36; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1064 TTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTTTT 1104
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 2 TCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 42

RESULT 19
AV947640
LOCUS AV947640 47 bp mRNA linear EST 14-MAR-2002
DEFINITION AV947640 Nori Satoh unpublished cDNA library, young adult Ciona
intestinalis cDNA clone ciad01916 5', mRNA sequence.
ACCESSION AV947640
VERSION AV947640 1 GI:19425399
KEYWORDS EST.
SOURCE Ciona intestinalis.
ORGANISM Ciona intestinalis
Eukaryota, Metazoa, Chordata, Vertebrata, Ascidiacea, Enterogena;
Phlebobranchia; Cionidae; Ciona.
1 (bases 1 to 47)
Satoh, N., Satou, Y., Kohara, Y. and Shin-i, T.
Expressed genes in Ciona intestinalis
Unpublished (2000)
CONTACT: Nori Satoh

```

Sakyo-ku, Kyoto, Kyoto 602, Japan
Tel: 81-75-753-4081
Fax: 81-75-705-1113
Email: sachimaesidian.zool@kyoto-u.ac.jp

```

/clone_lib="NCBI Satcho unpublished cDNA library, young
adult"
/tissue_type="whole animal"
/dev_stage="young adult"
/note="Vector: pBluescript SK"

BASE COUNT      0 a      23 c      0 g      23 t      1 others
ORIGIN

Query Match      0.6%;      Score 33.6;      DB 10;      Length 47;
Best Local Similarity 87.8%;      Pred. No. 3.7e+05;
Matches 36;      Conservative 0;      Mismatches 5;      Indels 0;      Gaps 0;

```

VERSION AV671476.1 GI:10109475
 KEYWORDS EST.
 SOURCE Ciona intestinalis.
 ORGANISM Ciona intestinalis
 Eukaryota; Metazoa; Chordata, Urochordata, Ascidiacea, Enterogona;
 Phlebobranchia; Cionidae; Ciona.
 1 (bases 1 to 49)
 REFERENCE Satoh, N., Satou, Y., Kohara, Y. and Shin-i, T.
 AUTHORS Expressed genes in Ciona intestinalis
 TITLE
 JOURNAL republished (2000)

Email: satoh@ascidian.zool.kyoto-u.ac.jp.

```

FEATURES
source
1. .39
Location/Qualifiers
/organism="Ciona intestinalis"
/db_xref="taxon:7719"
/clone="citb1510"
/clone_lib="Nori Satoh unpublished cDNA library"
/tissue_type="whole animal"
/dev_stage="tailbud"
/note="vector: pBluescript SK"
0 a 19 c 1 g 19 t
BASE COUNT

```

```

BASE COUNT      0 a      19 c      1 g      19 t
ORIGIN

Query Match      0.6%;      Score 32.6;      DB 10,      Length 39;
Best Local Similarity 89.7%;      Pred. No. 5.9e+05;
Matches 35; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

[illegible]

RESULT 35
AZ846058
LOCUS
DEFINITION
AZ846058 39 bp DNA linear GSS 20-FEB-2001
2M0146B07F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0146B07 F, DNA sequence.

AZ846058.1 GI:13015966
 GSS.
 house mouse.
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 39)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A.,
 and Wright, D. Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb

JOURNAL
COMMENT

Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
Genome Center
University of Utah
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Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA

Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0146 row: B column: 07
Seq primer: CGTTGTAAACGACGGCCAGT
Class: plasmid ends
High quality sequence stop: 39.

```

FEATURES
source
1. .39
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0146B07"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The

```

adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi|4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

```

BASE COUNT      0 a      19 c      0 g      20 t
ORIGIN

Query Match      0.6%;      Score 32.6;      DB 17;      Length 39;
Best Local Similarity 89.7%;      Pred. No. 5.9e+05;
Matches 35;      Conservative 0;      Mismatches 4;      Indels 0;      Gaps 0;

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[illegible]

RESULT 36
AZ987023
LOCUS
AZ987023
39 bp DNA linear GSS 27-APR-2001
2M0269N24F Mouse 10kb plasmid UUGC2M library Mus musculus genomic
clone UUGC2M0269N24 F, DNA sequence.

ACCESSION	AZ987023
VERSION	AZ987023.1
KEYWORDS	GI:13858250
SOURCE	GSS.
ORGANISM	house mouse.
REFERENCE	Mus musculus
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 39)
	Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausen,A. and Wright,D. Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb

JOURNAL
COMMENT

Prasanna Subramanian
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA

Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0269 row: N column: 24
 Seq primer: CGTTGTAACACGACGGCCAGT
 Class: plasmid ends
 High quality sequence stop: 39.

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FEATURES
source
1. .39
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0269N24"
/clone_lib="Mouse 10kb plasmid UUGC2M library"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (female) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The

```



```
Best Local Similarity   91.9%;    Pred No. 7.1e+05;
Matches   34; Conservative   0; Mismatches   3; Indels   0; Gaps   0;
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```
QY      1064 TTTCTCTCTCCTTCTCTCTCTCTCTCTCTCTCTCTCT 1100
db       1 TCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 37
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Search completed: March 11, 2003, 16:20:44
Job time : 4650 secs

TITLE Mouse whole genome scaffolding with paired end reads from 10kb

Query Match 0.6%; Score 32.2; DB 17; Length 37;

